Sheet 1 of 10 U.S. Application No. 10/605,923 Filing Date November 6, 2003

First Inventor Itzhak Bentwich Art Unit 1631 ZHOU, SHUBO

Examiner Docket Number 050992.0200.CPUS08

Information Disclosure Statement

		Information Disclosure Statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
	20	LEE, R. C., R. L. FEINBAUM and V. AMBROS. The C. elegans heterochronic gene lin-4 encodes small
		RNAs with antisense complementarity to lin-14 Cell Dec 3 1993 843-854 75
	30	WIGHTMAN, B., I. HA and G. RUVKUN. Posttranscriptional regulation of the heterochronic gene lin-14
		by lin-4 mediates temporal pattern formation in C. elegans Cell Dec 3 1993 855-862 75
	40	GALLINARO, H., L. DOMENJOUD and M. JACOB. Structural study of the 5' end of a synthetic
		premessenger RNA from adenovirus. Evidence for a long-range exon-intron interaction J Mol Biol Jul
		15 1994 205-225 240
	50	LU, C. and R. BABLANIAN. Characterization of small nontranslated polyadenylylated RNAs in vaccinia
		virus-infected cells Proc Natl Acad Sci U S A Mar 5 1996 2037-2042 93
	60	CRAWFORD, E. D., E. P. DEANTONI, R. ETZIONI, V. C. SCHAEFER, R. M. OLSON and C. A. ROSS.
		Serum prostate-specific antigen and digital rectal examination for early detection of prostate cancer in a
		national community-based program. The Prostate Cancer Education Council Urology Jun 1996 863-
		869 47
	70	Engdahl HM, Hjalt TA, Wagner EG. A two unit antisense RNA cassette test system for silencing of
		target genes. Nucleic Acids Res. Aug 15 1997 3218-27 25
	90	DSOUZA, M., N. LARSEN and R. OVERBEEK. Searching for patterns in genomic data. Trends Genet
		Dec 1997 497-498 13
	100	MOSS, E. G., R. C. LEE and V. AMBROS. The cold shock domain protein LIN-28 controls
		developmental timing in C. elegans and is regulated by the lin-4 RNA Cell 1997 637 88
	110	FIRE, A., S. XU, M. K. MONTGOMERY, S. A. KOSTAS, S. E. DRIVER and C. C. MELLO. Potent and
		specific genetic interference by double-stranded RNA in Caenorhabditis elegans Nature Feb 19 1998
	120	806-811 391 WATERHOUSE, P. M., M. W. GRAHAM and M. B. WANG. Virus resistance and gene silencing in
	120	plants can be induced by simultaneous expression of sense and antisense RNA Proc Natl Acad Sci U S
		A Nov 10 1998 13959-13964 95
	130	NGO, H., C. TSCHUDI, K. GULL and E. ULLU. Double-stranded RNA induces mRNA degradation in
	130	Trypanosoma brucei Proc Natl Acad Sci U S A Dec 8 1998 14687-14692 95
	140	VERMA, S. and F. ECKSTEIN. Modified oligonucleotides: synthesis and strategy for users Annu Rev
	140	Biochem ***No date in Pubmed*** 1998 99-134 67
	150	WUCHTY, S., W. FONTANA, I. L. HOFACKER and P. SCHUSTER. Complete suboptimal folding of
	100	RNA and the stability of secondary structures Biopolymers Feb 1999 145-165 49
	160	MATHEWS, D. H., J. SABINA, M. ZUKER and D. H. TURNER. Expanded sequence dependence of
		thermodynamic parameters improves prediction of RNA secondary structure. J Mol Biol. May 21 1999
		911-940 288
	170	CHANG, P. L. Encapsulation for somatic gene therapy. Ann N Y Acad Sci. Jun 18 1999 146-158 875
		. , , , , , , , , , , , , , , , , , , ,
	180	ZHANG, M. Q. Large-scale gene expression data analysis: a new challenge to computational biologists
		Genome Res Aug 1999 681-688 9
	190	GRISARU, D., M. STERNFELD, A. ELDOR, D. GLICK and H. SOREQ. Structural roles of
		acetylcholinesterase variants in biology and pathology Eur J Biochem Sep 1999 672-686 264
	200	FIRE, A. RNA-triggered gene silencing Trends Genet Sep 1999 358-363 15
	210	TABARA, H., M. SARKISSIAN, W. G. KELLY, J. FLEENOR, A. GRISHOK, L. TIMMONS, A. FIRE and
	l	C. C. MELLO. The rde-1 gene, RNA interference, and transposon silencing in C. elegans Cell Oct 15
		1999 123-132 99

Evaminer Signature:	Date Considered:	

U.S. Application No. 10/605,923 Filing Date November 6, 2003

Examiner Signature:

First Inventor Itzhak Bentwich Art Unit 1631 ZHOU, SHUBO

Examiner Docket Number 050992.0200.CPUS08

Information Disclosure Statement

NON PATENT LITERATURE DOCUMENTS Examiner	
Initials Cite No# Authors, Title, Journal, Date, Year, Pages, Volume	
220 RYO, A., Y. SUZUKI, K. ICHIYAMA, T. WAKATSUKI, N. KONDOH, A. HADA, M. YA	M AMOTO and N
YAMAMOTO, Serial analysis of gene expression in HIV-1-infected T cell lines FEB	
1999 182-186 462	O LCIL HOV LO
230 OLSEN, P. H. and V. AMBROS. The lin-4 regulatory RNA controls developmental ti	iming in
Caenorhabditis elegans by blocking LIN-14 protein synthesis after the initiation of tra	
Dec 15 1999 671-680 216	I DOLLON
240 TUSCHL, T., P. D. ZAMORE, R. LEHMANN, D. P. BARTEL and P. A. SHARP, Taro	seted mRNA
degradation by double-stranded RNA in vitro. Genes Dev. Dec 15 1999 3191-319	
260 REINHART, B. J., F. J. SLACK, M. BASSON, A. E. PASQUINELLI, J. C. BETTINGE	
H. R. HORVITZ and G. RUVKUN. The 21-nucleotide let-7 RNA regulates developm	
Caenorhabditis elegans Nature Feb 24 2000 901-906 403	Critica tinning in
270 PITT, J. N., J. A. SCHISA and J. R. PRIESS. P granules in the germ cells of Caenon	rhahditie elegane
adults are associated with clusters of nuclear pores and contain RNA. Dev Biol. Mar.	
219	
280 HAMMOND, S. M., E. BERNSTEIN, D. BEACH and G. J. HANNON, An RNA-direct	ted nuclease
mediates post-transcriptional gene silencing in Drosophila cells. Nature. Mar 16 20	
300 SLACK, F. J., M. BASSON, Z. LIU, V. AMBROS, H. R. HORVITZ and G. RUVKUN.	The lin-41 RBCC
gene acts in the C. elegans heterochronic pathway between the let-7 regulatory RNA	and the LIN-29
transcription factor Mol Cell Apr 2000 659-669 5	
310 FORTIER, E. and J. M. BELOTE. Temperature-dependent gene silencing by an ex.	pressed inverted
repeat in Drosophila Genesis Apr 2000 240-244 26	
320 MOURRAIN, P., C. BECLIN, T. ELMAYAN, F. FEUERBACH, C. GODON, J. B. MOF	
A. M. LACOMBE, S. NIKIC, N. PICAULT, K. REMOUE, M. SANIAL, T. A. VO and H.	
Arabidopsis SGS2 and SGS3 genes are required for posttranscriptional gene silenci	ng and natural virus
resistance Cell May 26 2000 533-542 101	
330 SIJEN, T. and J. M. KOOTER. Post-transcriptional gene-silencing: RNAs on the atta	ack or on the
defense? Bioessays Jun 2000 520-531 22	
340 BRENNER, S., M. JOHNSON, J. BRIDGHAM, G. GOLDA, D. H. LLOYD, D. JOHNS	
MCCURDY, M. FOY, M. EWAN, R. ROTH, D. GEORGE, S. ELETR, G. ALBRECHT	
R. WILLIAMS, K. MOON, T. BURCHAM, M. PALLAS, R. B. DUBRIDGE, J. KIRCHN	
MAO and K. CORCORAN. Gene expression analysis by massively parallel signature	e sequencing
(MPSS) on microbead arrays Nat Biotechnol Jun 2000 630-634 18	
350 RYO, A., Y. SUZUKI, M. ARAI, N. KONDOH, T. WAKATSUKI, A. HADA, M. SHUDA	L IZ TANIAYA O
SATO, M. YAMAMOTO and N. YAMAMOTO, Identification and characterization of c	
expressed mRNAs in HIV type 1-infected human T cells AIDS Res Hum Retroviruse	
1005 16	35 Juli 2000 995
360 NILSSON, M., G. BARBANY, D. O. ANTSON, K. GERTOW and U. LANDEGREN, E	nhanned detection
and distinction of RNA by enzymatic probe ligation. Nat Biotechnol. Jul. 2000. 791-7	
and distriction of their by enzymatic probe ligation teat biolectinor our 2000 751-2	155 16
370 KENT, W. J. and A. M. ZAHLER. Conservation, regulation, synteny, and introns in a	large-scale C
briogsae-C. elegans genomic alignment Genome Res Aug 2000 1115-1125 10	
380 KENNERDELL, J. R. and R. W. CARTHEW. Heritable gene silencing in Drosophila	using double-
stranded RNA Nat Biotechnol Aug 2000 896-898 18	
390 SMITH, N. A., S. P. SINGH, M. B. WANG, P. A. STOUTJESDIJK, A. G. GREEN and	I P. M.
WATERHOUSE. Total silencing by intron-spliced hairpin RNAs Nature Sep 21 2	

Filling Date	November 6, 2003
First Inventor	Itzhak Bentwich
Art Unit	1631
Examiner	ZHOU, SHUBO
Docket Number	050992,0200,CPUS08

10/605,923

U.S. Application No.

Information Disclosure Statement

Information Disclosure Statement

		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
	410	VOINNET, O., C. LEDERER and D. C. BAULCOMBE. A viral movement protein prevents spread of the
		gene silencing signal in Nicotiana benthamiana Cell Sep 29 2000 157-167 103
	420	Mette MF, Aufsatz W, van der Winden J, Matzke MA, Matzke AJ. Transcriptional silencing and promoter
		methylation triggered by double-stranded RNA. EMBO J. Oct 2 2000 5194-201 19
	430	YANG, D., H. LU and J. W. ERICKSON. Evidence that processed small dsRNAs may mediate
		sequence-specific mRNA degradation during RNAi in Drosophila embryos Curr Biol Oct 5 2000 1191
		1200 10
	440	ANANDALAKSHMI, R., R. MARATHE, X. GE, J. M. HERR, JR., C. MAU, A. MALLORY, G. PRUSS, L.
		BOWMAN and V. B. VANCE. A calmodulin-related protein that suppresses posttranscriptional gene
		silencing in plants Science Oct 6 2000 142-144 290
	450	FAGARD, M., S. BOUTET, J. B. MOREL, C. BELLINI and H. VAUCHERET. AGO1, QDE-2, and RDE-1
		are related proteins required for post-transcriptional gene silencing in plants, quelling in fungi, and RNA
		interference in animals Proc Natl Acad Sci U S A Oct 10 2000 11650-11654 97
	460	PASQUINELLI, A. E., B. J. REINHART, F. SLACK, M. Q. MARTINDALE, M. I. KURODA, B. MALLER,
		D. C. HAYWARD, E. E. BALL, B. DEGNAN, P. MULLER, J. SPRING, A. SRINIVASAN, M. FISHMAN, J.
		FINNERTY, J. CORBO, M. LEVINE, P. LEAHY, E. DAVIDSON and G. RUVKUN, Conservation of the
		sequence and temporal expression of let-7 heterochronic regulatory RNA Nature Nov 2 2000 86-89
		408
	470	LLAVE, C., K. D. KASSCHAU and J. C. CARRINGTON. Virus-encoded suppressor of
		posttranscriptional gene silencing targets a maintenance step in the silencing pathway Proc Natl Acad
		Sci U S A Nov 21 2000 13401-13406 9
	480	COGONI, C. and G. MACINO. Post-transcriptional gene silencing across kingdoms. Curr Opin Genet
		Dev Dec 2000 638-643 10
	500	ELBASHIR, S. M., W. LENDECKEL and T. TUSCHL. RNA interference is mediated by 21- and 22-
	000	nucleotide RNAs Genes Dev Jan 15 2001 188-200 15
	510	BERNSTEIN, E., A. A. CAUDY, S. M. HAMMOND and G. J. HANNON. Role for a bidentate
	0.0	ribonuclease in the initiation step of RNA interference Nature Jan 18 2001 363-366 409
	520	VAUCHERET, H. and M. FAGARD. Transcriptional gene silencing in plants: targets, inducers and
	320	regulators Trends Genet Jan 2001 29-35 17
	540	THOMAS, C. L., L. JONES, D. C. BAULCOMBE and A. J. MAULE. Size constraints for targeting post-
	340	transcriptional gene silencing and for RNA-directed methylation in Nicotiana benthamiana using a potato
		virus X vector Plant J Feb 2001 417-425 25
	550	GALYAM, N., D. GRISARU, M. GRIFMAN, N. MELAMED-BOOK, F. ECKSTEIN, S. SEIDMAN, A.
	550	ELDOR and H. SOREQ. Complex host cell responses to antisense suppression of ACHE gene
		expression Antisense Nucleic Acid Drug Dev Feb 2001 51-57 11
	560	SHARP, P. A. RNA interference—2001 Genes Dev Mar 1 2001 485-490 15
	570	MALLORY, A. C., L. ELY, T. H. SMITH, R. MARATHE, R. ANANDALAKSHMI, M. FAGARD, H.
	5/0	VAUCHERET, G. PRUSS, L. BOWMAN and V. B. VANCE. HC-Pro suppression of transgene silencing
		eliminates the small RNAs but not transgene methylation or the mobile signal Plant Cell Mar 2001
		571-583 13
	590	MATZKE, M. A., A. J. MATZKE, G. J. PRUSS and V. B. VANCE. RNA-based silencing strategies in
		plants Curr Opin Genet Dev Apr 2001 221-227 11
	600	SCHISA, J. A., J. N. PITT and J. R. PRIESS. Analysis of RNA associated with P granules in germ cells
		of C. elegans adults Development Apr 2001 1287-1298 128

xaminer Signature:	Date Considered:	

Sheet 4 of 10 U.S. Application No. 10/605,923

Filing Date November 6, 2003 First Inventor Itzhak Bentwich Art Unit 1631

ZHOU, SHUBO Examiner Docket Number 050992.0200.CPUS08

Examiner Signature: ___

Information Disclosure Statement

		Information Disclosure Statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
	610	DI SERIO, F., H. SCHOB, A. IGLESIAS, C. TARIINA, E. BOULDOIRES and F. MEINS, JR. Sense- and antisense- mediated gene silencing in tobacco is inhibited by the same viral suppressors and is associated with accumulation of small RNAs. Proc Natl Acad Sci U.S.A. May 22 2001 6506-6510 98
	620	ELBASHIR, S. M., J. HARBORTH, W. LENDECKEL, A. YALCIN, K. WEBER and T. TUSCHL.
		Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells. Nature. May 24 2001 494-498 411
	630	PICCIN, A., A. SALAMEH, C. BENNA, F. SANDRELLI, G. MAZZOTTA, M. ZORDAN, E. ROSATO, C. P. KYRIACOU and R. COSTA. Efficient and heritable functional knock-out of an adult phenotype in Drosophila using a CAL4-driven hairpin RNA incorporating a heterologous spacer Nucleic Acids Res Jun 15 2001 E55-55 29
	640	VANCE, V. and H. VAUCHERET. RNA silencing in plantsdefense and counterdefense Science Jun 22 2001 2277-2280 292
	650	ARGAMAN, L., R. HERSHBERG, J. VOGEL, G. BEJERANO, E. G. WAGNER, H. MARGALIT and S. ALTUVIA. Novel small RNA-encoding genes in the intergenic regions of Escherichia coil Curr Biol Jun 26 2001 941-950 11
	660	GRISHOK, A., A. E. PASOUINELLI, D. CONTE, N. LI, S. PARRISH, I. HA, D. L. BAILLIE, A. FIRE, G. RUVKUN and C. C. MELLO. Genes and mechanisms related to RNA interference regulate expression of the small temporal RNAs that control C. elegans developmental timing. Cell. Jul. 13 2001 23-34 108
	670	HUTVAGNER, G., J. MCLACHLAN, A. E. PASQUINELLI, E. BALINT, T. TUSCHL and P. D. ZAMORE. A cellular function for the RNA-interference enzyme Dicer in the maturation of the let-7 small temporal RNA Science Aug 3 201 834-838 293.
	680	HAMMOND, S. M., S. BOETTCHER, A. A. CAUDY, R. KOBAYASHI and G. J. HANNON. Argonaute2, a link between genetic and biochemical analyses of RNAi Science Aug 10 2001 1146-1150 293
	700	VAUCHERET, H., C. BECLIN and M. FAGARD. Post-transcriptional gene silencing in plants. J Cell Sci Sep. 2001 3083-3091 114
	710	WESLEY, S. V., C. A. HELLIWELL, N. A. SMITH, M. B. WANG, D. T. ROUSE, Q. LIU, P. S. GOODING, S. P. SINGH, D. ABBOTT, P. A. STOUTLESDUK, S. P. ROBINSON, A. P. GLEAVE, A. G. GREEN and P. M. WATERHOUSE. Construct design for efficient, effective and high-throughput gene silencing in plants? Plant J Sep. 2001 581-592.
	720	MATTICK, J. S. and M. J. GAGEN. The evolution of controlled multitasked gene networks: the role of introns and other noncoding RNAs in the development of complex organisms. Mol Biol Evol. Sep. 2001 1611–1630.
	730	CARTER, R. J., I. DUBCHAK and S. R. HOLBROOK. A computational approach to identify genes for functional RNAs in genomic sequences. Nucleic Acids Res. Oct 1 2001 3928-3938 29
	740	MOSS, E. G. RNA interference: it's a small RNA world. Curr Biol. Oct 2 2001 R772-775 11
	750	KETTING, R. F., S. E. FISCHER, E. BERNSTEIN, T. SUEN, G. J. HANNON and R. H. PLASTERK. Dicer functions in RNA interference and in synthesis of small RNA involved in developmental timing in C. elegans Genes Dev Oct 15 2001 2854-2859 15
	760	RUVKUN, G. Molecular biology. Glimpses of a tiny RNA world. Science. Oct 26 2001 797-799 294
	770	LEE, R. C. and V. AMBROS. An extensive class of small RNAs in Caenorhabditis elegans. Science Oct 26 2001 862-864 294
	780	LAU, N. C., L. P. LIM, E. G. WEINSTEIN and D. P. BARTEL. An abundant class of tiny RNAs with probable regulatory roles in Caenorhabditis elegans. Science. Oct 26. 2001. 858-862. 294.

 U.S. Application No.
 10/605,923

 Filling Date
 November 6, 2003

 First Inventor
 Itzhak Bentwich

 Art Unit
 1631

 Examiner
 ZHOU, SHUBO

 Docket Number
 06992, 2290, CPUS08

(Number 050892.0200.CP0506

Information Disclosure Statement

Examiner Signature: _____

		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
	790	LAGOS-QUINTANA, M., R. RAUHUT, W. LENDECKEL and T. TUSCHL. Identification of novel genes
		coding for small expressed RNAs Science Oct 26 2001 853-858 294
	820	ITAYA, A., A. FOLIMONOV, Y. MATSUDA, R. S. NELSON and B. DING. Potato spindle tuber viroid as
		inducer of RNA silencing in infected tornato Mol Plant Microbe Interact Nov 2001 1332-1334 14
	830	MATTICK, J. S. Non-coding RNAs: the architects of eukaryotic complexity EMBO Rep Nov 2001
		986-991 2
	840	ELBASHIR, S. M., J. MARTINEZ, A. PATKANIOWSKA, W. LENDECKEL and T. TUSCHL. Functional
		anatomy of siRNAs for mediating efficient RNAi in Drosophila melanogaster embryo lysate Embo J Dec
		3 2001 6877-6888 20
	850	AMBROS, V. microRNAs: tiny regulators with great potential Cell Dec 28 2001 823-826 107
	860	BLASZCZYK, J., J. E. TROPEA, M. BUBUNENKO, K. M. ROUTZAHN, D. S. WAUGH, D. L. COURT
		and X. Jl. Crystallographic and modeling studies of RNase III suggest a mechanism for double-
		stranded RNA cleavage Structure Dec 2001 1225-1236 9
	870	CRETE, P., S. LEUENBERGER, V. A. IGLESIAS, V. SUAREZ, H. SCHOB, H. HOLTORF, S. VAN
		EEDEN and F. MEINS. Graft transmission of induced and spontaneous post-transcriptional silencing of
		chitinase genes Plant J Dec 2001 493-501 28
	880	SMALLRIDGE, R. A small fortune Nat Rev Mol Cell Biol Dec 2001 867 2
	890	EDDY, S. R. Non-coding RNA genes and the modern RNA world Nat Rev Genet Dec 2001 919-929
		2
	900	LU, C. M. miRNA bead detection. Genaco Biomedical Products PHS 398 2001. 1
	910	MATZKE, M., A. J. MATZKE and J. M. KOOTER. RNA: guiding gene silencing 2001 1080 293
	920	GROSSHANS, H. and F. J. SLACK. Micro-RNAs: small is plentiful. J Cell Biol. Jan 7 2002 17-21 156
	930	MESHORER, E., C. ERB, R. GAZIT, L. PAVLOVSKY, D. KAUFER, A. FRIEDMAN, D. GLICK, N. BEN-
	930	ARIE and H. SOREQ. Alternative splicing and neuritic mRNA translocation under long-term neuronal
		hypersensitivity Science Jan 18 2002 508-512 295
	940	PADDISON, P. J., A. A. CAUDY and G. J. HANNON. Stable suppression of gene expression by RNA
	340	in mammalian cells Proc Natl Acad Sci U S A Feb 5 2002 1443-1448 99
	950	MOSS, E. G. MicroRNAs: hidden in the genome Curr Biol Feb 19 2002 R138-140 12
	960	BANERJEE, D. and F. SLACK. Control of developmental timing by small temporal RNAs: a paradigm
	300	for RNA-mediated regulation of gene expression Bioessays Feb 2002 119-129 24
	970	ELBASHIR, S. M., J. HARBORTH, K. WEBER and T. TUSCHL. Analysis of gene function in somatic
		mammalian cells using small interfering RNAs Methods Feb 2002 199-213 26
	980	HAN, Y, and D, GRIERSON. Relationship between small antisense RNAs and aberrant RNAs
		associated with sense transgene mediated gene silencing in tomato. Plant J. Feb. 2002. 509-519. 29
	990	NICHOLSON, R. H. and A. W. NICHOLSON. Molecular characterization of a mouse cDNA encoding
		Dicer, a ribonuclease III ortholog involved in RNA interference Mamm Genome Feb 2002 67-73 13
	1000	PUERTA-FERNANDEZ, E., A. BARROSO-DELJESUS and A. BERZAL-HERRANZ. Anchoring hairpin
		ribozymes to long target RNAs by loop-loop RNA interactions. Antisense Nucleic Acid Drug Dev. Feb.
l		2002 1-9 12
	1010	GIORDANO, E., R. RENDINA, I. PELUSO and M. FURIA. RNAi triggered by symmetrically transcribed
		transgenes in Drosophila melanogaster Genetics Feb 2002 637-648 160
		transgenes in Drosophila melanogaster Genetics Feb 2002 637-648 160

U.S. Application No. 10/605,923
Filling Date November 6, 2003

First Inventor Itzhak Bentwich
Art Unit 1631
Examiner ZHOU, SHUBO

Docket Number 050992.0200.CPUS08
Information Disclosure Statement

illomation disclosure statement

		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
	1020	MARTENS, H., J. NOVOTNY, J. OBERSTRASS, T. L. STECK, P. POSTLETHWAIT and W. NELLEN.
		RNAi in Dictyostelium: the role of RNA-directed RNA polymerases and double-stranded RNase Mol Biol
		Cell Feb 2002 445-453 13
	1030	MOURELATOS, Z., J. DOSTIE, S. PAUSHKIN, A. SHARMA, B. CHARROUX, L. ABEL, J.
		RAPPSILBER, M. MANN and G. DREYFUSS. miRNPs: a novel class of ribonucleoproteins containing
		numerous microRNAs Genes Dev Mar 15 2002 720-728 16
	1040	SEGGERSON, K., L. TANG and E. G. MOSS. Two genetic circuits repress the Caenorhabditis elegans
		heterochronic gene lin-28 after translation initiation Dev Biol Mar 15 2002 215-225 243
	1050	MOREL, J. B., C. GODON, P. MOURRAIN, C. BECLIN, S. BOUTET, F. FEUERBACH, F. PROUX and
		H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago 1) mutants impaired in post-transcriptional
		gene silencing and virus resistance Plant Cell Mar 2002 629-639 14
	1060	CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small RNAs and role
		of the qde genes in the gene silencing pathway in Neurospora. Genes Dev. Apr 1 2002 790-795 16
	1070	BOUTLA, A., K. KALANTIDIS, N. TAVERNARAKIS, M. TSAGRIS and M. TABLER. Induction of RNA
		interference in Caenorhabditis elegans by RNAs derived from plants exhibiting post-transcriptional gene
		silencing Nucleic Acids Res Apr 1 2002 1688-1694 30
	1080	PASQUINELLI, A. E. and G. RUVKUN. Control of developmental timing by micrornas and their targets
		Annu Rev Cell Dev Biol Epub 2002 Apr 2. 2002 495-513 18
	1090	PADDISON, P. J., A. A. CAUDY, E. BERNSTEIN, G. J. HANNON and D. S. CONKLIN. Short hairpin
		RNAs (shRNAs) induce sequence-specific silencing in mammalian cells. Genes Dev. Apr 15 2002 948-958 16
	1100	BECLIN, C., S. BOUTET, P. WATERHOUSE and H. VAUCHERET. A branched pathway for transgene-
	1100	induced RNA silencing in plants Curr Biol Apr 16 2002 684-688 12
	1110	EDDY, S. R. Computational genomics of noncoding RNA genes Cell Apr 19 2002 137-140 109
	1110	
	1120	LAGOS-QUINTANA, M., R. RAUHUT, A. YALCIN, J. MEYER, W. LENDECKEL and T. TUSCHL.
		Identification of tissue-specific microRNAs from mouse Curr Biol Apr 30 2002 735-739 12
	1130	KENT, W. J. BLATthe BLAST-like alignment tool Genome Res Apr 2002 656-664 12
	1140	HUTVAGNER, G. and P. D. ZAMORE. RNAi: nature abhors a double-strand Curr Opin Genet Dev
		Apr 2002 225-232 12
	1150	NILSSON, M., J. BANER, M. MENDEL-HARTVIG, F. DAHL, D. O. ANTSON, M. GULLBERG and U.
		LANDEGREN. Making ends meet in genetic analysis using padlock probes. Hum Mutat. Apr. 2002.
		410-415 19
	1160	PASQUINELLI, A. E. MicroRNAs: deviants no longer Trends Genet Apr 2002 171-173 18
	1170	LAI, E. C. Micro RNAs are complementary to 3' UTR sequence motifs that mediate negative post-
		transcriptional regulation Nat Genet Apr 2002 363-364 30
	1180	SCHWARZ, D. S. and P. D. ZAMORE. Why do miRNAs live in the miRNP? Genes Dev May 1 2002
	1100	1025-1031 16
	1190	BRANTL, S. Antisense-RNA regulation and RNA interference Biochim Biophys Acta May 3 2002 15
	4000	25 1575
	1200	LI, H., W. X. LI and S. W. DING. Induction and suppression of RNA silencing by an animal virus
	1210	Science May 17 2002 1319-1321 296 ZAMORE, P. D. Ancient pathways programmed by small RNAs Science May 17 2002 1265-1269
	1210	22AMONE, P. D. Ancient paurways programmed by small NNAS Science May 17 2002 1205-1209
		1400

Examiner Signature:	Date Considered	

U.S. Application No. 10/605,923
Filling Date November 6, 2003
First Inventor Itzhak Bentwich
Art Unit 1631

Art Unit 1631

Examiner ZHOU, SHUBO

Docket Number 050992,0200,CPUS08

Information Disclosure Statement

Examiner Signature:

		Information Disclosure Statement
L		NON PATENT LITERATURE DOCUMENTS
Examiner	1	
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
	1220	CHEN, S., E. A. LESNIK, T. A. HALL, R. SAMPATH, R. H. GRIFFEY, D. J. ECKER and L. B. BLYN. A
		bioinformatics based approach to discover small RNA genes in the Escherichia coli genome
		Biosystems Mar-May 2002 157-177 65
	1230	LEE, N. S., T. DOHJIMA, G. BAUER, H. LI, M. J. LI, A. EHSANI, P. SALVATERRA and J. ROSSI.
		Expression of small interfering RNAs targeted against HIV-1 rev transcripts in human cells Nat
		Biotechnol May 2002 500-505 20
	1240	DRAGHICI, S. Statistical intelligence: effective analysis of high-density microarray data. Drug Discov
		Today Jun 1 2002 S55-63 7
	1250	SILHAVY, D., A. MOLNAR, A. LUCIOLI, G. SZITTYA, C. HORNYIK, M. TAVAZZA and J. BURGYAN. A
		viral protein suppresses RNA silencing and binds silencing-generated, 21- to 25-nucleotide double-
		stranded RNAs Embo J Jun 17 2002 3070-3080 21
	1260	AYASH-RASHKOVSKY, M., Z. WEISMAN, J. DIVELEY, R. B. MOSS, Z. BENTWICH and G. BORKOW.
		Generation of Th1 immune responses to inactivated, gp120-depleted HIV-1 in mice with a dominant Th2
		biased immune profile via immunostimulatory [correction of imunostimulatory] oligonucleotides
		relevance to AIDS vaccines in developing countries. Vaccine. Jun 21 2002 2684-2692 20
	1270	TABARA, H., E. YIGIT, H. SIOMI and C. C. MELLO. The dsRNA binding protein RDE-4 interacts with
		RDE-1, DCR-1, and a DExH-box helicase to direct RNAi in C. elegans Cell Jun 28 2002 861-871
		109
	1280	BETTENCOURT, R., O. TERENIUS and I. FAYE. Hemolin gene silencing by ds-RNA injected into
		Cecropia pupae is lethal to next generation embryos Insect Mol Biol Jun 2002 267-271 11
	1290	HOOPER, N. M. and A. J. TURNER. The search for alpha-secretase and its potential as a therapeutic
		approach to Alzheimer's disease Curr Med Chem Jun 2002 1107-1119 9
	1300	LIU, Q., S. SINGH and A. GREEN. High-oleic and high-stearic cottonseed oils: nutritionally improved
		cooking oils developed using gene silencing J Am Coll Nutr Jun 2002 205S-211S 21
	1310	ZENG, Y., E. J. WAGNER and B. R. CULLEN. Both natural and designed micro RNAs can inhibit the
		expression of cognate mRNAs when expressed in human cells Mol Cell Jun 2002 1327-1333 9
	1320	MCMANUS, M. T., C. P. PETERSEN, B. B. HAINES, J. CHEN and P. A. SHARP. Gene silencing using
		micro-RNA designed hairpins Rna Jun 2002 842-850 8
	1330	REINHART, B. J., E. G. WEINSTEIN, M. W. RHOADES, B. BARTEL and D. P. BARTEL. MicroRNAs in
		plants Genes Dev Jul 1 2002 1616-1626 16_
	1340	MCCAFFREY, A. P., L. MEUSE, T. T. PHAM, D. S. CONKLIN, G. J. HANNON and M. A. KAY. RNA
		interference in adult mice Nature Jul 4 2002 38-39 418
	1350	HANNON, G. J. RNA interference Nature Jul 11 2002 244-251 418
	1360	DENNIS, C. The brave new world of RNA Nature Jul 11 2002 122-124 418
	1370	JACQUE, J. M., K. TRIQUES and M. STEVENSON. Modulation of HIV-1 replication by RNA
		interference Nature Jul 25 2002 435-438 418
l	1380	CULLEN, B. R. RNA interference: antiviral defense and genetic tool. Nat Immunol. Jul. 2002. 597-599
		3
	1390	MA, C. and A. MITRA. Intrinsic direct repeats generate consistent post-transcriptional gene silencing in
		tobacco Plant J Jul 2002 37-49 31
	1400	NOVINA, C. D., M. F. MURRAY, D. M. DYKXHOORN, P. J. BERESFORD, J. RIESS, S. K. LEE, R. G.
	l	COLLMAN, J. LIEBERMAN, P. SHANKAR and P. A. SHARP. siRNA-directed inhibition of HIV-1
		infection Nat Med Jul 2002 681-686 8

Sheet 8 of 10 U.S. Application No. 10/605,923

Filing Date November 6, 2003 First Inventor Itzhak Bentwich Art Unit 1631 ZHOU, SHUBO Examiner

Docket Number 050992.0200.CPUS08

Information Disclosure Statement

Examiner Signature: _____

		morniation bisclosure statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
	1410	POMERANTZ, R. J. RNA interference meets HIV-1: will silence be golden? Nat Med Jul 2002 659-
		660 8
	1420	ZENG, Y. and B. R. CULLEN. RNA interference in human cells is restricted to the cytoplasm. Rna. Jul.
		2002 855-860 8
	1430	XIANG, C. C., O. A. KOZHICH, M. CHEN, J. M. INMAN, Q. N. PHAN, Y. CHEN and M. J.
		BROWNSTEIN. Amine-modified random primers to label probes for DNA microarrays. Nat Biotechnol
		Jul 2002 738-742 20
	1440	LLAVE, C., K. D. KASSCHAU, M. A. RECTOR and J. C. CARRINGTON. Endogenous and silencing-
		associated small RNAs in plants Plant Cell Jul 2002 1605-1619 14
	1450	RHOADES, M. W., B. J. REINHART, L. P. LIM, C. B. BURGE, B. BARTEL and D. P. BARTEL.
		Prediction of plant microRNA targets Cell Aug 23 2002 513-520 110
	1460	HIPFNER, D. R., K. WEIGMANN and S. M. COHEN. The bantam gene regulates Drosophila growth
		Genetics Aug 2002 1527-1537 161
	1470	LIU, Q., S. P. SINGH and A. G. GREEN. High-stearic and High-oleic cottonseed oils produced by
		hairpin RNA-mediated post-transcriptional gene silencing Plant Physiol Aug 2002 1732-1743 129
	4 400	OTOLIT ISODUK A A A A A ANDRIA A LIVE A LIVE A ANDREAS A MATERIALISM
	1480	STOUTJESDIJK, P. A., S. P. SINGH, Q. LIU, C. J. HURLSTONE, P. A. WATERHOUSE and A. G. GREEN. hoRNA-mediated targeting of the Arabidoosis FAD2 gene gives highly efficient and stable
	4400	silencing Plant Physiol Aug 2002 1723-1731 129 SUZUMA, S., S. ASARI, K. BUNAI, K. YOSHINO, Y. ANDO, H. KAKESHITA, M. FUJITA, K.
	1490	NAKAMURA and K. YAMANE. Identification and characterization of novel small RNAs in the aspS-vvM
		intergenic region of the Bacillus subtilis genome Microbiology Aug 2002 2591-2598 148
		Intergenic region of the bacillus subilis genome. Microbiology: Aug. 2002 2591-2596 146
	1500	MILLIGAN, L., T. FORNE, E. ANTOINE, M. WEBER, B. HEMONNOT, L. DANDOLO, C. BRUNEL and
	1000	G. CATHALA. Turnover of primary transcripts is a major step in the regulation of mouse H19 gene
		expression EMBO Rep Aug 2002 774-779 3
	1510	HAMILTON, A., O. VOINNET, L. CHAPPELL and D. BAULCOMBE. Two classes of short interfering
	10.0	RNA in RNA silencing Embo J Sep 2 2002 4671-4679 21
	1520	LEE, Y., K. JEON, J. T. LEE, S. KIM and V. N. KIM. MicroRNA maturation; stepwise processing and
		subcellular localization Embo J Sep 2 2002 4663-4670 21
	1530	KLAHRE, U., P. CRETE, S. A. LEUENBERGER, V. A. IGLESIAS and F. MEINS, JR. High molecular
		weight RNAs and small interfering RNAs induce systemic posttranscriptional gene silencing in plants
		Proc Natl Acad Sci U S A Sep 3 2002 11981-11986 99
	1540	PARK, W., J. LI, R. SONG, J. MESSING and X. CHEN. CARPEL FACTORY, a Dicer homolog, and
		HEN1, a novel protein, act in microRNA metabolism in Arabidopsis thaliana Curr Biol Sep 3 2002
		1484-1495 12
	1550	JIANG, M. and J. MILNER. Selective silencing of viral gene expression in HPV-positive human cervical
		carcinoma cells treated with siRNA, a primer of RNA interference. Oncogene. Sep 5 2002 6041-6048
		21
	1560	MARTINEZ, J., A. PATKANIOWSKA, H. URLAUB, R. LUHRMANN and T. TUSCHL. Single-stranded
		antisense siRNAs guide target RNA cleavage in RNAi Cell Sep 6 2002 563-574 110
	1570	ALLSHIRE, R. Molecular biology. RNAi and heterochromatina hushed-up affair Science Sep 13
		2002 1818-1819 297
	1580	REINHART, B. J. and D. P. BARTEL. Small RNAs correspond to centromere heterochromatic repeats
		Science Sep 13 2002 1831 297
	1590	VOLPE, T. A., C. KIDNER, I. M. HALL, G. TENG, S. I. GREWAL and R. A. MARTIENSSEN. Regulation
I	l	of heterochromatic silencing and histone H3 lysine-9 methylation by RNAi Science Sep 13 2002
		1833-1837 297

 U.S. Application No.
 10/605,923

 Filing Date
 November 6, 2003

 First Inventor
 Itzhak Bentwich

 Art Unit
 1631

Art Unit 1631

Examiner ZHOU, SHUBO

Docket Number 050992.0200.CPUS08

Information Disclosure Statement

		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
	1600	BAULCOMBE, D. DNA events. An RNA microcosm Science Sep 20 2002 2002-2003 297
	1610	LLAVE, C., Z. XIE, K. D. KASSCHAU and J. C. CARRINGTON. Cleavage of Scarecrow-like mRNA
		targets directed by a class of Arabidopsis miRNA Science Sep 20 2002 2053-2056 297
	1620	MOCHIZUKI, K., N. A. FINE, T. FUJISAWA and M. A. GOROVSKY. Analysis of a piwi-related gene
		implicates small RNAs in genome rearrangement in tetrahymena Cell Sep 20 2002 669-699 110
	1630	HUTVAGNER, G. and P. D. ZÁMORE. A microRNA in a multiple-turnover RNAi enzyme complex Science Sep 20 2002 2056-2060 297
	1640	COBURN, G. A. and B. R. CULLEN. Potent and specific inhibition of human immunodeficiency virus
		type 1 replication by RNA interference J Virol Sep 2002 9225-9231 76
	1650	CAUDY, A. A., M. MYERS, G. J. HANNON and S. M. HAMMOND. Fragile X-related protein and VIG
		associate with the RNA interference machinery. Genes Dev. Oct 1 2002 2491-2496 16
	1660	ISHIZUKA, A., M. C. SIOMI and H. SIOMI. A Drosophila fragile X protein interacts with components of
		RNAi and ribosomal proteins Genes Dev Oct 1 2002 2497-2506 16
	1670	VOINNET, O. RNA silencing: small RNAs as ubiquitous regulators of gene expression. Curr Opin Plant
	1070	Biol Oct 2002 444-451 5
	1660	GOLDEN, T. A., S. E. SCHAUER, J. D. LANG, S. PIEN, A. R. MUSHEGIAN, U. GROSSNIKLAUS, D.
		W. MEINKE and A. RAY, SHORT INTEGUMENTS1/SUSPENSOR1/CARPEL FACTORY, a Dicer
		homolog, is a maternal effect gene required for embryo development in Arabidopsis Plant Physiol Oct
		2002 606-622 130
	1690	MERKLE, I., M. J. VAN OOIJ, F. J. VAN KUPPEVELD, D. H. GLAUDEMANS, J. M. GALAMA, A.
		HENKE, R. ZELL and W. J. MELCHERS. Biological significance of a human enterovirus B-specific RNA
		element in the 3' nontranslated region J Virol Oct 2002 9900-9909 76
	1700	FROEYEN, M. and P. HERDEWIJN. RNA as a target for drug design, the example of Tat-TAR
		interaction Curr Top Med Chem Oct 2002 1123-1145 2
	1710	CARMELL, M. A., Z. XUAN, M. Q. ZHANG and G. J. HANNON. The Argonaute family: tentacles that
		reach into RNAi, developmental control, stem cell maintenance, and tumorigenesis. Genes Dev. Nov.1
		2002 2733-2742 16
	1720	PROVOST, P., D. DISHART, J. DOUCET, D. FRENDEWEY, B. SAMUELSSON and O. RADMARK.
		Ribonuclease activity and RNA binding of recombinant human Dicer Embo J Nov 1 2002 5664-5674
		21
	1730	ZHANG, H., F. A. KOLB, V. BRONDANI, E. BILLY and W. FILIPOWICZ. Human Dicer preferentially
		cleaves dsRNAs at their termini without a requirement for ATP Embo J Nov 1 2002 5875-5885 21
	1740	MALLORY, A. C., B. J. REINHART, D. BARTEL, V. B. VANCE and L. H. BOWMAN. A viral suppressor
		of RNA silencing differentially regulates the accumulation of short interfering RNAs and micro-RNAs in
		tobacco Proc Natl Acad Sci U S A Nov 12 2002 15228-15233 99
	1750	GOTTESMAN, S. Stealth regulation: biological circuits with small RNA switches Genes Dev Nov 15
		2002 2829-2842 16
	1760	CALIN, G. A., C. D. DUMITRU, M. SHIMIZU, R. BICHI, S. ZUPO, E. NOCH, H. ALDLER, S. RATTAN,
		M. KEATING, K. RAI, L. RASSENTI, T. KIPPS, M. NEGRINI, F. BULLRICH and C. M. CROCE.
		Frequent deletions and down-regulation of micro- RNA genes miR15 and miR16 at 13q14 in chronic
	l	lymphocytic leukemia Proc Natl Acad Sci U S A Nov 26 2002 15524-15529 99
	1770	GAUDILLIERE, B., Y. SHI and A. BONNI. RNA interference reveals a requirement for myocyte
	l	enhancer factor 2A in activity-dependent neuronal survival J Biol Chem Nov 29 2002 46442-46446
		277
Exa	miner Signa	ature: Date Considered:

U.S. Application No. Filing Date November 6, 2003 First Inventor Itzhak Bentwich Art I Init 1631 Everniner ZHOU SHUBO Docket Number 050992 0200 CPUSOR

10/605 923

Information Disclosure Statement NON PATENT LITERATURE DOCUMENTS Evaminer Initiale Cite No# Authors, Title, Journal, Date, Year, Pages, Volume JONES, L. Revealing micro-RNAs in plants. Trends Plant Sci. Nov. 2002, 473-475, 7. 1780 1790 SCHAUER, S. E., S. E. JACOBSEN, D. W. MEINKE and A. RAY, DICER-LIKE1; blind men and elephants in Arabidopsis development. Trends Plant Sci. Nov. 2002, 487-491. 7 1800 OKAZAKI, Y., M. FURUNO, T. KASUKAWA, J. ADACHI, H. BONO, S. KONDO, et al. Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs. Nature. Dec 5 2002 563-573 420 1810 DENNIS, C. Small RNAs; the genome's guiding hand? Nature Dec 19-26 2002 732 420 HUTTENHOFER, A., J. BROSIUS and J. P. BACHELLERIE. RNomics: identification and function of small, non-messenger RNAs Curr Opin Chem Biol Dec 2002 835-843 6 1840 WOOD, N. T. Unravelling the molecular basis of viral suppression of PTGS Trends Plant Sci 2002 384 7 1850 COHEN, O., C. ERB, D. GINZBERG, Y. POLLAK, S. SEIDMAN, S. SHOHAM, R. YIRMIYA and H. SOREQ. Neuronal overexpression of "readthrough" acetylcholinesterase is associated with antisensesuppressible behavioral impairments. Mol Psychiatry. ***No date in pubmed***. 2002. 874-885. 7 MLOTSHWA, S., O. VOINNET, M. F. METTE, M. MATZKE, H. VAUCHERET, S. W. DING, G. PRUSS 1860 and V. B. VANCE. RNA silencing and the mobile silencing signal Plant Cell ""No date in pubmed"" 2002 S289-301 14 Suppl

xaminer Signature:	Date Considered: